

## Lab 7

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**USN : 1BM23CS009**

```
import java.util.Scanner;

class NegativeAgeError extends Exception {
    int a;
    public NegativeAgeError(int a) {
        this.a = a;
    }
    public String toString() {
        return "Negative Age: " + a;
    }
}

class InvalidAgeError extends Exception {
    int a, b;
    public InvalidAgeError(int a, int b) {
        this.a = a;
        this.b = b;
    }
    public String toString() {
        return "Invalid Age: " + a + " is less than " + b;
    }
}
```

```
class Father {  
    String name;  
    int age;  
    Father(String name, int age) {  
        try {  
            if(age < 0) {  
                throw new NegativeAgeError(age);  
            }  
            this.name = name;  
            this.age = age;  
        }  
        catch(NegativeAgeError e) {  
            System.out.println(e);  
        }  
    }  
}
```

```
class Son extends Father {  
    String sonName;  
    int sonAge;  
    Son(String sonName, int sonAge, String fatherName, int fatherAge) {  
        super(fatherName, fatherAge);  
        this.sonName = sonName;  
        try {  
            if(sonAge < 0) {
```

```

        throw new NegativeAgeError(sonAge);
    }
    if(sonAge >= fatherAge){
        throw new InvalidAgeError(sonAge, fatherAge);
    }
    this.sonAge = sonAge;
}
catch(NegativeAgeError e) {

    System.out.println(e);
}
catch(InvalidAgeError e) {

    System.out.println(e);
}
}
}

```

```

class Exceptions {
    public static void main(String[] args){
        System.out.println("Abhinav Sanjay\nUSN : 1BM23CS009");
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter son name");
        String name=sc.next();
        System.out.println("Enter son age");
        int age=sc.nextInt();
    }
}

```

```
System.out.println("Enter father name");
String Name=sc.next();
System.out.println("Enter fathers age");
int Age=sc.nextInt();

        Son a1 = new Son(name,age,Name,Age);
System.out.println("End of program");

    }
}
```

```
C:\Abhinav 3A>java Exceptions
Abhinav Sanjay
USN : 1BM23CS009
Enter son name
a
Enter son age
5
Enter father name
b
Enter fathers age
3
Invalid Age: 5 is less than 3

C:\Abhinav 3A>java Exceptions
Abhinav Sanjay
USN : 1BM23CS009
Enter son name
a
Enter son age
5
Enter father name
b
Enter fathers age
-4
Negative Age: -4
Invalid Age: 5 is less than -4
```